

Esters of alkylphosphonic acids, and their parachors

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Abstract

1. The following alkylphosphonic esters have been synthesized: dibutyl, dihexyl, dioctyl, and didecyl methylphosphonates; dihexyl hexylphosphonate, dioctyl octylphosphonate, dinonyl nonylphosphonate, and didecyl decylphosphonate. 2. Mixed esters of alkylphosphonic acids, have been obtained for the first time by a transesterification reaction: ethyl hexyl, ethyl octyl, and ethyl decyl methylphosphonates; ethyl hexyl hexylphosphonate, and ethyl octyl octylphosphonate. 3. The parachors of the alkylphosphonic esters have been determined, and conclusions have been reached concerning the corrections for chain interaction. © 1953 Consultants Bureau.

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